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10/820,442	04/07/2004	Mikko Makela	915-007.084	7157

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EXAMINER
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TANK, ANDREW L

ART UNIT	PAPER NUMBER
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2173

MAIL DATE	DELIVERY MODE
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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/820,442

Applicant(s)

MAKELA, MIKKO

Examiner

Andrew Tank

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 29 June 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 07/19/2007.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. The following action is in response to the amendment of June 29, 2007. Applicant has directly amended claims 1, 13-15, and 17. Claims 18 and 19 have been added as new. Claims 1-19 are pending and have been considered below.

#### ***Claim Objections***

2. The previous improper dependent form objections of claims 13 and 14 have been properly overcome by the amendment to claims 13 and 14 of June 29, 2007, and are subsequently withdrawn.
3. The previous 35 USC § 112 6<sup>th</sup> paragraph claims objections of claims 15 and 17 have been properly overcome by the amendment to claims 15 and 17 of June 29, 2007 and are subsequently withdrawn.

#### ***Claim Rejections - 35 USC § 101***

4. The previous 35 USC § 101 rejection of claim 13 has been properly overcome by the amendment to claim 13 of June 29, 2007 and is subsequently withdrawn.
5. The previous 35 USC § 101 rejection of claim 13 has been properly overcome by the amendment to and arguments regarding claims 15 and 17 and are subsequently withdrawn.

***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. **Claims 1-7 and 9-19** are rejected under 35 U.S.C. 102(a) as being anticipated by Chen, Y., Ma, W. J., and Zhang, H. J. “Detecting Web Page Structure for Adaptive Viewing on Small Form Factor Devices,” *Proceedings of the 12<sup>th</sup> international conference on World Wide Web (WWW 2003)*, May 20-24, 2003, Budapest, Hungary, hereafter known as “Chen”.

**Claims 1, 14, 15, and 17:** Chen discloses a method for presenting at least a part of a page (page 1, Abstract: “analyze the structure of a web page and split it into small and logically related units that fit onto a screen of a mobile device), comprising:

- at least partially dividing at least one page into a plurality of areas (page 2, paragraph 4: “From the extracted structure, different content blocks are identified.”);
- determining at least one area of said plurality of areas to be made an active area (page 6, paragraph 3: “Based on the result of the page analysis, the content in the final set of content blocks can be easily extracted and stored into sub-pages”);
- making said at least one determined area an active area (page 6, paragraph 3: “the content in the final set of content blocks can be easily extracted and stored into sub-pages”);
- presenting said plurality of areas in a first representation (page 6 paragraph 1: “the user will first receive an index page”), and

- in response to a user operation on said at least one active area (page 6 paragraph 1: “the user to access each sub-page through the hyperlinks in the index page”), presenting at least one of said at least one active areas in a second representation (page 8, Fig. 18(a) Page Splitting).

**Claim 2:** Chen discloses sub-page presenting method according to claim 1 above, wherein in said user operation, at least one of said at least one active areas is selected, and wherein at least said selected area is presented in said second representation (page 2, Fig. 1: “By clicking on a block in the thumbnail, a user can easily go to view the corresponding content which is formatted to fit well into a small screen.”).

**Claim 3:** Chen discloses the sub-page presenting method according to claim 1 above, wherein at least two areas of said plurality of areas are made active areas (page 6, paragraph 3: “the content in the final set of content blocks can be easily extracted and stored into sub-pages”).

**Claim 4:** Chen discloses sub-page presenting method according to claim 1 above, wherein said at least partial division of said at least one page into said plurality of areas is based on a structure of at least a part of said at least one page (page 2, paragraph 4: “The web page is split into many sub-pages according to the structure information.”).

**Claim 5:** Chen discloses sub-page presenting method according to claim 1 above, wherein said at least partial division of said at least one page into said plurality of areas is based on a sectioning algorithm (page 2, paragraph 6: “At each iteration, the page analysis algorithm finds a best way to partition a content block into smaller ones.”).

**Claim 6:** Chen discloses sub-page presenting method according to claim 1 above, wherein in said first representation, at least one area of said plurality of areas is scaled to a size that is

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smaller than the original size of said respective area (page 6, paragraph 12: "We generate a thumbnail image for the original web page").

**Claim 7:** Chen discloses the sub-page presenting method according to claim 1 above, wherein in said first representation, at least one area of said plurality of areas is cropped (page 8 paragraph 3: "the content which is clipped due to smaller width").

**Claim 9:** Chen discloses sub-page presenting method according to claim 1 above, wherein areas of said plurality of areas with a size that is above a size threshold (page 3, paragraph 8 "A pair of thresholds (one for width and the other for height) is used to determine whether a node is small enough.", "iterated until all the nodes are classified into the five high-level blocks"), or that contain an amount of information that is above an information threshold are made active areas (page 5, paragraph 5 "clustering method is applied on the newly created string at each iteration until the highest frequency is below a certain threshold"), or both (page 4, paragraph 4 "The algorithm described in Section 3.2 is used to detect the high-level content blocks.", page 5, paragraph 5; used in implicit separation which is used in conjunction with explicit separation and the algorithm to determine the content blocks of the sub-pages).

**Claim 10:** Chen discloses the sub-page presenting method according to claim 1 above, including the semantically related content selectable according to a user (page 2, Fig. 1), wherein at least one of said at least one active areas is automatically focused (page 6, paragraph 12: "mark the content blocks with different colors", colors highlight areas to better focus a user on that area), or selected according to a selection criterion (page 1, paragraph 3 "requires the user .. to find the content of interest", page 2, Fig. 1: "a user can easily go to view the corresponding content", a user selects information which is of personal interest, i.e. selection according to a selection

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criterion, wherein the criterion is information of interest to the user), or both (Content blocks are colored, and a user selects according to information of interest).

**Claim 11:** Chen discloses sub-page presenting method according to claim 1 above, wherein in said second representation, at least one active area is scaled to a size that is larger than the size in said first representation (page 8, Fig. 18(a) Page splitting).

**Claim 12:** Chen discloses sub-page presenting method according to claim 1 above, wherein within at least one of said areas presented in said first representation, elements (page 2 Fig. 1: “clicking on a block”) can be directly selected by a user (page 2 Fig. 1: “By clicking on a block, a user can easily go to..”).

**Claims 13, 18, and 19:** Chen discloses sub-page presenting method, system, and device according to claims 1, 17, and 15 above respectively, wherein said determining of said at least one area of said plurality of areas to be made an active area is performed automatically (page 2, paragraph 6: “In our approach, identifying the content blocks from the semantic structure of a web page is conducted in an iterative manner.”, “the page analysis algorithm finds a best way to partition the content block into smaller ones”, page 6, paragraph 3: “Based on the result of the page analysis, the content in the final set of content blocks can be easily extracted and stored into sub-pages”).

**Claim 16:** Chen discloses sub-page presenting device according to claim 15 above, wherein said areas are presented on a display module, or on a display of a portable electronic device (page 1, Abstract: “Mobile devices”, “to facilitate navigation and reading on a small-form-factor device”, page 2, Fig 1).

***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. **Claim 8** is rejected under 35 U.S.C. 103(a) as being unpatentable over Chen in view of Tsimelzon (US 6,834,306).

**Claim 8:** Chen discloses the sub-page presenting method according to claim 1 above, and further discloses that the areas are colored (page 6, paragraph 12: “mark the content blocks with different colors”) and bordered (page 2, Fig. 1). However, Chen does not specifically disclose wherein in said first representation, at least one area of said plurality of areas is indicated by an icon. Tsimelzon discloses a method for notifying a user of changes to certain parts of web pages (Title). Tsimelzon discloses that the parts include icons for indication to a user (col 11 lines 64-67, col 12 lines 1-6). Therefore, it would have been obvious to one of ordinary skill in the art, and having the teachings of Chen and Tsimelzon before them at the time the present invention was made, to provide indication using an icon, as taught by Tsimelzon, for the colored and bordered areas disclosed by Chen. One would have been motivated to do this in order to provide an alternative further alternative to differentiate the areas to a user.

***Response to Arguments***

10. Applicant's arguments with respect to claims 1 and 9 have been considered but are moot in view of the new ground(s) of rejection.



***Conclusion***

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Tank whose telephone number is 571-270-1692. The examiner can normally be reached on Mon - Fri (Alt. Fri Off) 0730-1500 EST.

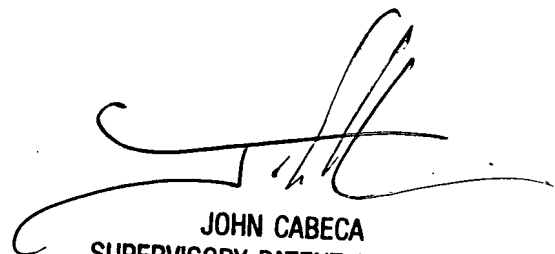
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on 571-272-4048. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



ALT  
September 19, 2007



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